

KUDIN, N.N.

Platform for loading and unloading livestock. Zhivotnovodstvo 20
no. 7:69 J1 '58. (MIRA 11:8)

1. Direktor Litovskoy respublikanskoy veterinarnoy polikliniki,
(Lithuania--Domestic animals--Transportation)

KUDIN, N.

With the help of students. Nauka i pered.op.v sel'khoz. 9
no.1:71-72 Ja '59. (MIRA 13:3)

1. Zamestitel' direktora po uchebnoy chasti Krasnogradskogo tekhniki-
kum mekhanizatsii sel'skogo khozyaystva.
(Agricultural machinery)

KUDIN, N.

Such a loading device can be made on any collective farm.
Nauka i pered.op.v sel'khoz. 9 no.11:58-60 M '59.
(MIRA 13:3)

1. Zamestitel' direktora Krasnodarskogo tekhnika mekhanizatsii sel'skogo khozyaystva.
(Farm equipment) (Loading and unloading)

KUDIN, P.V.; BOL'SHAKOVA, K.V.; LEBEDEVA, G.Ya.; SAMARSKAYA, L.L.;
PANTSER, I.A.

Treatment of periodontitis with antibiotics. Stomatologiya 40
no.1:25-26 Ja-F '61. (MIRA 14:5)

1. Iz stomatologicheskoy polikliniki Krasnoarmeyskogo rayona
Stalingrada (glavnyy vrach P.T.Baranov).
(GUMS--DISEASES) (ANTIBIOTICS)

XUDIN, Sergey Nikolayevich [Kudin, S.M.]; PODOBORINOV, Anatoliy Leonidovich
[Podhorinov, A.L.]; KHILOBOCHENKO, Leonid Samsonovich;
POLTORATSKAYA, Ye. [Poltorats'ka, E.], red.; VOLOSHCHENKO, Z., red.;
NARINSKAYA, A. [Narins'ka, A.], tekhn.red.

[Small hydroelectric power stations of the Ukrainian S.S.R.] Mali
hidroelektrostantsii URSS. Kyiv, Derzh.vyd-vo lit-ry i budivnytstva
i arkhitekt. URSS, 1960. 158 p. (MIRA 14:3)
(Ukraine--Hydroelectric power stations)

KOSYURA, G.G. [Kosiura, H.H.]; KUDIN, S.N.

"Study of the density and moisture of soils using radioactive methods" by A.I.E. Babynets', S.T. Zvol's'kyi. Reviewed by H.H. Kosiura, S.N. Kudin. Geol.zhur. 22 no.5:109-110 '62.
(MIRA 15:12)

1. Kiyevskiy inzhenerno-stroitel'nyy institut.
(Soil moisture) (Radioactivity)
(Babynets', A.I.E.) (Zvol's'kyi, S.T.)

57-27-7-3/40

AUTHORS: Iglitsyn, M. I., Kontsevoy, Yu. A., Kudin, V. D., Meyer, A. A.

TITLE: Lifetime Measurements of Charge-Carriers in Semiconductors
(Ob izmerenii vremeni zhizni nositeley zaryada v poluprovodnikakh)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1967, Vol. 27, Nr 7, pp. 1414 - 1424
(USSR)

ABSTRACT: The measuring method is based on the modulation of conductivity in a point-contact. The attempt is made here in investigations of the concentration-variation of the not real (minor ?) charge-carriers to take into account not only the recombination in the volume, but also that on the surface, as well as the diffusion of the charge-carriers. On this basis the calculation-formulae are derived under the assumption that the non-equilibrated concentration of the charge-carriers in the sample is small as compared to the equilibrated one, and that the lifetime of the unred charge-carrier is not dependent on their concentration. The dependence of the measurement results for the lifetime on the parameters of the injecting impulse is investigated and the conditions for a correct measurement are determined. On the basis of the analysis given here the absolute usability of this method for the determination of the

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57-27-7-3/40

Lifetime Measurements of Charge-Carriers in Semiconductors

lifetime of the not real charge-carriers in the semiconductors is proved. In comparison with other measuring methods this one has the following advantages: no collector-contact is needed, smaller sensitivity toward the surface finish, the possibility to determine local values for the lifetime immediately at the base. There are 7 figures, 1 table, and 10 references, 2 of which are Soviet.

SUBMITTED: November 1, 1956

AVAILABLE: Library of Congress

1. Semiconductors-Electrical properties-Measurement

Card 2/2

Abstract 1-12

AUTHORS: Igilityn, M. I., Kontsevov, Yu. A., Kacim. V. D., 57-27-7-4/40

TITLE: Lifetime Measurements in Monocrystal-Silicon (Izmereniye vremeni zhizni v monokristallicheskom kremnii).

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7, pp. 1425-1430 (USSR)

ABSTRACT: The method is based on the measurement of the modulated conductivity in the domain of a point-contact during the passage of two consecutive current-impulses. The lifetime measurements are compared to the measurement results for the diffusion-length obtained by the photoelectric method (with movable light probe). It is shown that both data are in good agreement. The dependence of the lifetime of charge-carriers on temperature was examined. It is shown that in a wide temperature range of from 200 to 630°K for most of the silicon-samples with a p- and n-conductivity the variation-character of the lifetime of unrelaxed charge-carriers in dependence on temperature is in agreement with the conclusions of the theory developed by W.Shockley and W.Read (Phys. Rev. 87, 835, 1952) and that it has a great similarity with the data obtained for germanium. It is shown that the ionization-energy of the recombination-centers lies in the range of from 0,13 to 0,18 eV. A completely different character of the dependence of lifetime on temperature was determined in the case of a silicon-sample with

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Lifetime Measurements in Monocrystal-Silicon.

57-27-7-4/40

electron-conductivity. An essential decrease in the measured lifetime was here observed in the domain of the admixture-conductivity at rise of temperature from 0° to 100°C. Upon further rise of temperature the dependence of lifetime on temperature took place like in the other samples. In the case of intensive illumination the dependence of the lifetime on temperature in the entire temperature range investigated took a normal course. There are 5 figures, 1 table, and 17 references, 2 of which are Soviet.

SUBMITTED: November 1, 1956

AVAILABLE: Library of Congress

1. Single crystals-Conductivity-Measurement
2. Single crystals-Electrical properties-Measurement

Card 2/2

KONTSEVOY, Yu.A.; KUDIN, V.D.; GERASIMOV, A.D.; ASVADUROVA, Ye.I.;
TATARENKOV, A.I.; KUDRYAVTSEVA, V.F.

Apparatus for measuring the electrophysical properties of semi-
conducting materials. Zav.lab. 29 no.11:1397-1399 '63.

(MIRA 16:12)

VOROB'YEV, S.A., prof.; KRUPENINA, A.P., kand. sel'skokhoz. nauk;
 LOSHAKOV, V.G., kand. sel'skokhoz. nauk; VOZNESENSKIY, K.N.;
KUDIN, V.I.; KOBLEV, Yu.M.; YEFIMOV, I.T., kand. sel'skokhoz.
 nauk; MASANDILOV, E.S., kand. sel'skokhoz. nauk; NAFTALIYEV,
 Sh.P., aspirant; PANASYUK, B.A., aspirant

Concentration of crop rotations. Zemledelie 27 no.7:55-70
 J1 '65. (MIRA 18:7)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A. Timiryazeva (for Vorob'yev, Krupenina, Loshakov).
2. Glavnyy agronom po kormam Ministerstva sel'skogo khozyaystva Tadzhikskoy SSR (for Voznesenskiy).
3. Brestskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Kudin).
4. Adygeyskaya oblastnaya sel'skokhozyaystvennaya opytnaya stantsiya (for Koblev).
5. Krasnodarskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Yefimov).
6. Dagestanskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Naftaliyev).
7. Ukrainskaya sel'skokhozyaystvennaya akademiya (for Panasyuk).

KRUTOV, P.I., kand.tekhn.nauk, red.; KUDIN, V.M., nauchnyy red.

[Collection of technical papers; special publication on the use of reeds in building] Sbornik tekhnicheskoi informatsii; spetsial'nyi vypusk o primeneni kamysa v stroitel'stve. Moskva, Izd. Biuro tekhn.pomoshchi Glav. upr.kapital'nogo stroit. MSKh RSFSR, 1957. 65 p. (MIRA 11:5)

1. Nauchno-issledovatel'skiy institut sel'skogo stroitel'stva.
(Reed (Botany))

SOV/112-57-9-18278

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9,
pp 17-18 (USSR)

AUTHOR: Kudin, V. N., Lapshin, M. S.

TITLE: Measuring Electric Parameters of Glass at High Temperature and High
Frequency (Izmereniye elektricheskikh parametrov stekla pri vysokoy
temperature i vysokoy chastote)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 18, pp 164-172

ABSTRACT: The authors examine methods of measuring permittivity and dielectric loss
angle $\tan \delta$ of glass in comparison with the high-frequency thermal treatment it re-
quires. A high-sensitivity Q-meter was used for measurements. A. V.
Netushil's methods of measuring low Q-factor by means of two and three read-
ings were repeated, and the latter method, with specially selected measuring
conditions, served to measure Q-factors < 1 . Relative error was reduced by
a special coaxial bushing leading into the furnace; a measuring capacitor was
mounted on the furnace end of the bushing while the outer end was cooled by

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SOV/112-57-9-18278

Measuring Electric Parameters of Glass at High Temperature and High Frequency

running water. With some approximation, such a bushing can be regarded as a symmetrical fourpole network or as a section of a long line. The line parameters can be calculated or measured; neglecting the losses in steatite (the bushing insulation) and assuming the longitudinal resistance of the bushing to be lower than its inductive reactance, the bushing can be equivalently represented by a no-loss line. On this basis, the formulae for permittivity and loss angle of the glass sample can be derived. The measurement results fully agree with data of other authors, and in addition cover much higher temperatures.

K.A.V.

Card 2/2

RUDIN, V.M., Cand Tech Sci—(diss.) "Certain problems of measuring the complex dielectric permeability of industrial materials by means of a ^Q-meter." 1958, 1959. 14 pp. (Min of Higher Education USSR. For Order of Lenin Power Engineering Inst. Chair of Theoretical Problems of ^{Electric} ~~Electric~~ Engineering), 100 copies (KB,25-58,110)

-75-

KUDIN, V.N., aspirant

Analysis of errors and a method for processing the results of an experiment during which complex dielectric permeability was measured with a Q-meter circuit. Trudy MEI no.27:219-231 '58.

(MIRA 13:4)

(Electric measurements)

• KUDIN, V N

B(4); 9(4)

PHASE I BOOK EXPLOITATION

SOV/1995

Netushil, Anatoliy Vladimirovich, Boris Yakovlevich Zhukhovitskiy, Vsevolod Nikolayevich Kudin, and Yevgeniy Pavlovich Parini

Vysokochastotnyy nagrev dielektrikov i poluprovodnikov (High-frequency Heating of Dielectrics and Semiconductors) 2d ed., rev. Moscow, Gosenergoizdat, 1959. 479 p. Errata slip inserted. 11,000 copies printed.

Ed. (inside book): S. A. Avayev; Tech Ed.: G. I. Matveyev; Ed. (Title page): Anatoliy Vladimirovich Netushil.

PURPOSE: The book is intended for engineers and scientific workers dealing with electrothermics. It may also be used by senior students of vtuzes.

COVERAGE: The authors discuss problems of heating of various industrial materials in a high-frequency electric field. They describe the fields of application of dielectric heating and present fundamental physical laws which serve as the basis of calculation and design of equipment for heating materials in the electric field of a capacitor. Attention is given to measuring the parameters of

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High-frequency (Cont.)

SOV/1995

materials in a high-frequency electric field. Some aspects of shielding industrial equipment to decrease interferences are discussed. Chapters 1, 2, 3, 5, 6, 7 were written by A. V. Netushil; Chapters, 8, 9, 10 by B. Ya. Zhukhovitskiy; Chapters 11, 12, and the Appendix by Ye. P. Parini; and Chapter 4 by V. N. Kudin. The discussion on checking the LGD-30 oscillator in Chapter 12 was written by Engineer A. A. Frumkin. The material for Chapter 1 was provided the authors by the following persons: G. T. Chesnokov, Chief Engineer of LZVU; Director of NII TVCh imeni V. P. Vologdin, M. A. Spitsyn, Candidate of Technical Sciences; Kh. E. Malkina of NIIShP, Candidate of Technical Sciences; K. A. Didebulidze of VIESKh, Candidate of Technical Sciences; and Engineers V. M. Degtev of VEI, V. V. Ustinov of GPI, I. P. Sakharov of VNIIB, L. M. Koval'chuk of TsNIISK. The authors thank Professor A. V. Donskoy and Professor G. I. Skanavi for reviewing the manuscript. There are 256 references: 201 Soviet, 32 English, 17 German, 3 French, 2 Czech and 1 Italian.

TABLE OF CONTENTS:

Foreword

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К. В. В. В. В.

28(1)

SOV/142-2-1-20/22

AUTHOR: Vologdin, V.V.

TITLE: A Conference on Electrical Food Processing Methods
(Konferentsiya po elektricheskim metodam obrabotki
pishchevykh produktov)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1959, Vol 2, Nr 1, pp 120-121 (USSR)

ABSTRACT: A conference on electrical food processing methods was held in Kiyev from 7 to 13 October 1958. The conference was organized by the Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti USSR (Kiyev Institute of Technology of the Food Industry UkrSSR). The conference comprised a wide range of problems and the novelty of the subjects caused great interest of workers from scientific institutions and industrial installations. The 350 delegates came from 60 towns of the USSR; 119 participants were sent to the conference from vuzes and scientific research institutes. At the conference, more than 50 reports were delivered and discussed,

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CONFIDENTIAL - 1-20/22

A Conference on Electrical Food Processing Methods

dealing with problems of applying electrostatic fields, direct current, low frequency current, high frequency current, infrared and ultraviolet radiation, X-ray and gamma radiation for processing food products. Also statements were made concerning the application of ultrasound oscillations in the food industry. Considerable attention was devoted to the application of TVCh (tok vysokoy chastoty = high frequency current) for technological purposes, particularly for processing non-conductive materials in an electric high frequency field. More than 20 reports and statements were delivered on this subject, dealing with theoretical and technological problems. For example: "The Electrical Properties of Some Food Products in High Frequency Field" by S.N. Andreyev, V.N. Kudin, A. V. Netushil (Moscow); "Active Losses in Food Products" by I.S. Pavlov (Kiyev); "The Electrical Properties of Milk" by Yu.E. Nedzvetskiy (Leningrad); "A Continuous Automatic High Frequency

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A Conference on Electrical Food Processing Methods

Sterilizer for the Sterilization of Fruit Conserves on a Conveyer" by N.D. Chernyayev (Moscow); "The Defrosting of Spiced Sprats by High Frequency Currents" by V.N. Podsevalov (Astrakhan); "The High Frequency Boiling of Electrically Smoked Fish" by A.I. and M.I. Kalitina and I.S. Pavlov (Kiyev); "The Technological Peculiarities of Processing Sausage Products by High Frequency Currents" by N. N. Shishkina (Moscow). At the conference, the following reports were heard with great interest and were discussed in detail: "The Application of Infrared Heating for Drying of Confectionery Products" by N.B. Belostotskiy (RIGA); "The Technological Principles of the Hot Electrical Fish Smoking Process" by A.I. and M.I. Kalitina and Ye.I. Naumov (Kiyev); "A New Fish Processing Technology and the Processing of Sardines and Sprats With the Application of Infrared Light and Smoking Liquid" by I.I. Lapshin (Moscow); "The VNIIEOP Experimental Equipment for Ionization Processing of Food Products"

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SOV, 142-2-1-20/22

A Conference on Electrical Food Processing Methods

by N.D. Chernyayev (Moscow); and "An Investigation of the Possible Application of Radioactive Radiation for Preserving the Albuminous Residue of Integumentary Whale Fat" by S.I. Tsyarkin (Leningrad). The creative work conducted in the field of processing food by electrical methods was demonstrated by a large number of the reports delivered at the conference. In the majority of cases, this work was conducted at a high theoretical level by individuals and by teams of scientific and industrial workers. However, a number of reports were of doubtful theoretical and practical value and did not present any new information (for example those dealing with drying in a high frequency current field). Problems of work hygiene, shielding of devices and buildings and the elimination of radio interferences, were not considered at the conference. Especially the elimination of radio interferences may create the idea of an unreal simplicity of introducing some of the processing methods. After the discussion

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A Conference on Electrical Food Processing Methods SOV/142-2-1-20/22

and the exchange of opinions on the reports, the conference participants worked out a number of resolutions, directed at the future development of electrical food processing methods. The most important resolution dealt with the coordination of the future work in the field of applying electrical processing technologies, the introduction of the latter, and the creation of typified projects and equipment. The propaganda for applying electrical processing methods in the food industry must be intensified by conducting regularly conferences and meetings on this subject. Further, scientific, technological, periodical and reference literature must be published.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut imeni V.I. Ul'yanova (Lenina) (Leningrad Institute of Electrical Engineering imeni V.I. Ul'yanov (Lenin))

SUBMITTED:
Card 5/5

November 3, 1958

Kudin, V.N.

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E192/E382

AUTHORS: Netushil, A.V., Burdak, N.M., Zhukhovitskiy, B.Ya.
and Kudin, V.N.

TITLE: Design of Saturated Chokes³ for Modulator Circuits

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Radiotekhnika, 1960, Vol. 3, No. 2, pp 191-201

TEXT: The analysis of the modulator circuits based on saturated cores is usually based on an idealized magnetization curve (Reb. 1 and 2), which does not take into account the magnetizing current. A different approach is therefore adopted. It is assumed that the modulator considered is in the form shown in Fig. 2. The characteristic of the first saturated core in this system is represented by the curve shown in Fig. 1b, while that of the second core is approximated by the curve shown in Fig. 1a. The difference in the two characteristics is due to the fact that the characteristic of the first core is shifted towards the righthand side by an amount $I_n(W_n/W_1)$ due to the current I_n in the secondary winding W_n . In investigating the operation of the modulator of Fig. 2, it can be assumed that all the capacitances of the Card 1/4

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E192/E382

Design of Saturated Chokes for Modulator Circuits

system are fully discharged before the commencement of a new charging cycle. The voltage applied to the modulator is sinusoidal, i.e. $e = E \sin \omega_n t$. Expressions for the voltage across C_1 and the current and m flux of the first core are derived.

Similar expressions are found for the voltage across the second condenser and the current and flux of the second core. The shape of these parameters as a function of time is illustrated in Fig. 3. The current for the k -th core can be represented in the form shown in Fig. 4, where T_k represents the duration of a current pulse. The operation of the system can be regarded as linear during each of the intervals illustrated in Fig. 4. It is, however, necessary to determine the frequency dependence of the equivalent complex permeability of the cores for a given constant value of the magnetic permeability. It is assumed for this purpose that the core consists of a set of steel laminations having a width $2a$, a thickness $2b_1$, a permeability μ and a conductivity σ ; the laminations are insulated from each other by a layer of dielectric having a permittivity ϵ and a thickness $2b_2$ (Fig. 5). The evaluation of the complex

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Design of Saturated Chokes for Modulator Circuits

permeability of this system can be done on the basis of the results obtained by N.G. Katkov and K.M. Polivanov (Ref. 4); however, it is possible to simplify the formulae given by those authors. It is shown that the complex permeability is expressed by:

$$\mu_3 = \mu_{cp} \frac{\text{th}[jK_f \sqrt{\mu_{cp}(1 + K_3)}]}{jK_f \sqrt{\mu_{cp}(1 + K_3)}} \quad (8)$$

where μ_{cp} is the average value of the permeability

$$K_3 = b_1/b_2, \quad K_f = \omega a \sqrt{\epsilon \epsilon_0 \mu_0} \quad \text{and} \quad K_M = \frac{b_1}{2a} \sqrt{\frac{\mu_0}{\epsilon \epsilon_0}}.$$

By means of Eq. (8), it is possible to determine μ_3 for various values of μ , K_3 , K_M and K_f . Examples of such characteristics are given in Figs. 6, 7. If the shape of the

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Design of Saturated Chokes for Modulator Circuits

current waveform in the winding of a core (Fig. 4) is known and if the frequency dependence of μ_s is determined, it is possible to calculate the losses due to eddy currents. The energy lost in eddy currents during an aperiodic change due to a pulse is expressed by Eq. (10), where $H(\omega)$ is the spectral density of the pulse. Eq. (10) is used to determine the eddy-current losses for the pulses of Fig. 4, which can be regarded as consisting of a combination of a sinusoidal and trapezoidal pulses. There are 10 figures and 10 references: 1 English and 9 Soviet.

ASSOCIATION: Kafedra teoreticheskikh osnov elektrotekhniki
Moskovskogo energeticheskogo instituta
(Chair of Electrical Engineering Theory of
Moscow Power Institute)

SUBMITTED: June 9, 1959

Card 4/4

NETUSHIL, Anatoliy Vladimirovich; ZHUKHOVITSKIY, Boris Yakovlevich; KUDIN, Vsevolod Nikolayevich; BABAT, G.I., prof., retsenezent; OVSYANNIKOVA, Z.G., red.; GARINA, T.D., tekhn. red.

[High-frequency heating in an electric field] Vysokochastotnyi nagrev v elektricheskom pole. Moskva, Gos. izd-vo "Vysshaya shkola," 1961.
145 p. (MIRA 14:10)

(Dielectric heating)

KUDINA, A.

Courses on a particular problem. Prof.-tekh.obr. 18 no.6:32 Ja
'61. (MIRA 14:7)

1. Inzhener po podgotovke kadrov stanko-stroitel'nogo zavoda
imeni Sergo Ordzhonikidze, Moskva.
(Moscow—Evening and continuation schools)

100-70000

4:34

S 2000 1 1 1995 1115

Antonov, A.R., Goyba, N.I., Kadina, A.V., Zverenko, A.A.

... of lags in the temperature and humidity of the air for thermal and ... at a height of 2 meters

1. Uchenyye zapiski Leningradskiy nauchno-issledovatel'skiy tsentr teploenergeticheskogo instituta
 1964, No. 11. Toprudy* teplovoye i vodnoye opotrebovaniye (Heat and water
 consumption) 95-115

atmospheric humidity, atmospheric temperature, thermal temperature
temperature variations, humidity, atmospheric humidity

At meteorological stations, all variables are measured at one height, the temperature and humidity at other heights being obtained indirectly by also measuring them at one height. In obtaining the gradient, the authors use the method hitherto

...relationship between 401 and 402, and the fact that 402 is a product of

07-1-55

NR. AT4046360

between the two levels, and likewise for humidity. This and a similar
correction to the measurement of turbulent heat
transfer at the surface of the liquid is made at
a height of 2 mm above the surface.
The results of the measurements are shown in
Figure 1. The curves show the dependence of the
heat transfer coefficient on the Reynolds number.
The data obtained are in good agreement with the
results of other authors.

С. А. Мамонтов, Институт метеорологического
научно-исследовательского института.

NR AT4046360

SECRET

SECRET

OTHER

LAPIDUS, B.V.; POLIAVSKIY, V.T.; RYBAK, G.D.; OSHEROVICH, M.D.;
KANAATOV, S.; GELEVEY, A.M.; KUDINA, Z.A.; STANKEVICH,
M.P.; PRITULYAK, O.M.

[National economy of the Kirghiz S.S.R. in 1963; a statistical yearbook] Narodnoe khoziaistvo Kirgizskoi SSR v 1963 godu; statisticheskii ezhegodnik. Frunze, Statistika, 1964. 237 p. (MIRA 18:6)

1. Tsentral'noye statisticheskoye upravleniye pri Sovete Ministrov Kirgizskoy SSR.

ACCESSION NR: AP4042957

S/0102/64/000/004/0075/0079

AUTHOR: Kudinenko, A. V. (Kiev); Chy*nayev, P. I. (Kiev)

TITLE: Contactless optimum controller

SOURCE: Avtomaty*ka, no. 4, 1964, 75-79

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory, optimum controller

ABSTRACT: These major units and their functions (see Enclosure 1) of the contactless optimum controller are briefly described: blocking oscillator 1 controlling a pulse distributor; delay devices 2 and 3 controlled by blocking oscillator 4; reactive trigger 5 acting as a time relay; comparison unit 6 which controls, via an amplifier, trigger 7, the latter controlling, via i_1 and i_2 , — and, if necessary, reversing — the windings of a magnetic amplifier; a final control element designed with a magnetic amplifier from DUND-05. A simplified

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ACCESSION NR: AP4042957

connection diagram is supplied, and an experimental verification of a laboratory hookup is claimed. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 03Sep62

ENCL: 01

SUB CODE: DP, IE

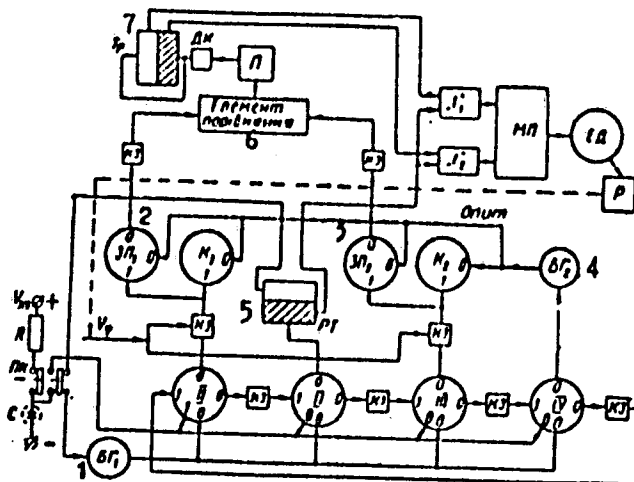
NO REF SOV: 000

OTHER: 000

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ACCESSION NR: AP4042957

ENCLOSURE: 01



A simplified functional diagram of the contactless optimum controller

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1. The first stage of the process is the

the second stage of the process is the

the third stage of the process is the

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the ninth stage of the process is the

the tenth stage of the process is the

End

ACCESSION NR: AP5021568

2

former is connected through an amplifier to a logical element which controls reversal of the rotating mechanism.

• The above information is for

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KUDINOV, A.

Service industries in Czechoslovakia. Mest. prom. i khud. promys.
3 no.9:28-29 S '62. (MIRA 16:12)

ACC NR: AP6004217

(A)

SOURCE CODE: UR/0331/65/000/009/0001/0002

AUTHOR: Rushnov, N. P.; Kudinov, A. A.

ORG: [N. P. Rushnov] TsNIIME; [A. A. Kudinov] MLTI

TITLE: Portable chopper

SOURCE: Lesnaya promyshlennost', no. 9, 1965, 1-2

TOPIC TAGS: forestry, forest product, agricultural machinery

ABSTRACT: The DDP disc chopper (which has been undergoing experimental testing at the Kholmech Logging Facility of the Bryansk Forestry Administration) is described. The chopper can be mounted on a single axle trailer or operate in a stationary position. It can be powered by electric motor or tractor. The article gives a detailed description of all the operating parts, its technical parameters, production efficiency, and its ability to handle various types of tree tops and branches. Suggestions are given for improving its efficiency and reducing the amount of power necessary for its operation. Orig. art. has: 2 photographs, 2 tables,

SUB CODE: 02,13/

SUBM DATE: none

UDC: 634.0.363.7

Card 1/1 *MLP*

KUDINOV, Aleksandr Ivanovich; PIROZHNIKOV, L.B., nauchn. red.;
TABUNINA, M.A., red.; BOROVNEV, N.K., tekhn. red.

[Devices for technological control in the production of
concrete and reinforced concrete work and precast re-
inforced concrete elements] Pribory dlia tekhnicheskogo
kontrolia pri proizvodstve betonnykh i zhelezobetonnykh
rabort i sbornykh zhelezobetonnykh konstruktsii. Moskva,
Gosstroizdat, 1963. 95 p. (MIRA 17:2)

BUCHACHER, Ye.A.; KUDINOV, A.M.; NEYAGLOV, A.V.; MIKERIN, B.I.;
MALIYEVSKIY, A.S.

Mixing unit for a sulfuric-acid alkylation contactor with
electric drive. Trudy BashNII NP no.7:56-62 '64.
(MIRA 17:9)

KONSTANTINOV, A.R.; KUDINA, A.V.

Methods for the calculation of diurnal variations of
evaporation from the surface of soil and snow based on
the air temperature and humidity as measured at meteorological
stations. Trudy UkrNIIGMI no.31:101-113 '62.
(MIRA 16:11)

VITKOVSKIY, B.I.; GOYSA, N.I.; KONSTANTINOV, A.R.; KUDINA, A.V.;
OLEYNIK, R.N.; SAKALI, L.I.

Meteorological conditions and heat balance of the underlying
surface during the work of the expeditions of the Ukrainian
Scientific Research Hydrometeorological Institute and the
Main Geophysical Observatory in the summer of 1960 and 1961.
Trudy UkrNIGMI no.35:3-17 '63. (MIRA 17:1)

KONSTANTINOV, A.R.; KUDINA, A.V.; OLEYNIK, R.N.

Method for taking into account the effect of the sea on
the temperature and moisture of the air above land. Trudy
UkrNIGMI no.35:140-152 '63. (MIRA 17:1)

KLEBANSKIY, A.L.; PONOMAREV, A.I.; KUDINA, V.I.

Preparation of carboxymethylheptamethylcyclotetrasiloxane. *Khim. nauka i prom.* 3 no.2:285-286 '58. (MIRA 11:6)

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva..

(Siloxanes)

MEADOWS, M. I.

Meadows

One hundred centners of hay per hectare., Korm. baza, 3, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

Na povremenu predkhu i na povremu predkhu (predkhu i na povremu predkhu)
renewal and pastures, Lockva, Bel'khor, 1941 16 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 7, Oct. 1941

KUDINENKO, A.V.; SHINAYEV, P.I., kand. tekhn. nauk

High-speed noncontact optimizing controller. Avtom. i prib. no.2;
12-13 Ap-Je '65. (MIRA 18:7)

Kudinov, A
USSR/ Miscellaneous - Radiofication

Card 1/1 Pub. 89 - 2/30

Authors : Kudinov, A.

Title : Communists in the fight for the radiofication of a region

Periodical : Radio 6, 3 - 4, Jun 1955

Abstract : A complaint is filed by the secretary of the Kyrinsk regional Communist party against the delay in radiofication of his particular region which is located 450 km from the nearest Chitinsk regional center and 400 km from the closest R/R station which has a telephone.

Institution :

Submitted :

6(4)

S/107/60/000/05/030/047
D047/D006

AUTHORS:

Kudinov, A., Assistant to the Minister of Communications
of the Uzbek SSR, Linchevskiy, M., Chief Engineer DRTS

TITLE:

Two Programs Over the Wires

PERIODICAL:

Radio, 1960, Nr 5, p 43 (USSR)

ABSTRACT:

This is a description of a diffusion⁸ network for two programs set up by Uzbek radio workers in Tashkent and other towns. Of the two programs transmitted by the receiving center, one is rediffused by the usual method and for the other a special transmitter, assembled on the basis of a TU-600 amplifier, is used. Among other parts used in the equipment are a line transformer from a KVH-49 television set, P1B, P2B and P3B triodes and DCTs23 diodes. There is 1 diagram.

Card 1/1

KUDINOV, A.

Using readwork panels in mass housing construction. Gor. i sel'.
stroit. no.2:3-5 F '57. (MIRA 10:6)

1. Ministr gorodskogo i sel'skogo stroitel'stva Kazakhskoy SSR.
(Kazakhstan--Architecture, Domestic) (Building materials)

KUDINOV, A., inzh.

The all-Union state standard for building-levels. Stroitel' no.8:23
Ag '60. (MIRA 13:8)
(Level (Tool)--Standards)

KUDINOV, A.

Ultrasonic method of inspecting the quality of concrete.

Stroitel' 8 no.7:27-28 J1 '62.

(MIRA 15:8)

(Ultrasonic waves--Industrial applications)

(Concrete--Testing)

AKIMOV, Ye.T.; KUDINOV, A.A.

New technology for shaft sinking. Sbor. trud. VNIITSVETMET
no.4:66-81 '59. (MIRA 16:8)

(Shaft sinking—Equipment and supplies)

KLOPOV, Sergey Vasil'yevich; ALEKSEYEV, Vladimir Khristianovich; ZOTOVA, Vera Mikhaylovna; KUDINOV, Aleksandr Georgiyevich; MARKIN, Arkadiy Borisovich; SEMENTSOV, V.A., otv.red. [deceased]; NEMCHENKO, V.S., red.isd-va; YEGOROVA, N.F., tekhn.red.

[Power resources and power engineering in southern areas of the Yakut A.S.S.R.] Energeticheskie resursy i energetika iushaykh rayonov Iakutskoi ASSR. Moskva, Izd-vo Akad.nauk SSSR, 1959. 58 p. (MIRA 12:10)

(Yakutia--Power resources)

POPOVA, N.M., kandidat tekhnicheskikh nauk; KUDINOV, A.I., inzhener.

Remote control and automatic operation in the Moscow sewage disposal plant.
Gor.khoz.Mosk. 27 no.11:19-22 N '53. (MIRA 6:11)

(Moscow--Sewerage) (Remote control)

KUDINOV, A.I., inzh.

Electronic device for controlling the degree of prestressing
in reinforcements. Bet.1 zhel.-bet. no.1:15-19 Ja '60.

(MIRA 13:5)

(Prestressed concrete) (Electronic instruments)

TAMARIN, A.A., kand. tekhn. nauk. Prinimali uchastiye: VOLLEYDT, A.N., mlad. nauchnyy sotr.; POPOVA, N.A., mlad. nauchnyy sotr.; MASLOBOYSHCHIKOV, A.N., inzh.; KUDINOV, A.I.; PIROZHIKOV, L.B.; SHITOVA, L.N., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Instructions for production testing of large prestressed concrete elements] Ukazaniia po proizvodstvennym ispytaniiam krupnorazmernykh predvaritel'no napriazhennykh zhelezobetonnykh konstruktsei. Moskva, Gosstroizdat, 1962. 128 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. (MIRA 15:9) Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
2. Rukovoditel' gruppy ispytaniy Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu Akademii stroitel'stva i arkhitektury SSSR (for Tamarin).
(Prestressed concrete—Testing)

BUCHACHER, Ye.A.; KUDINOV, A.M.; NEYAGLOV, A.V.; MIKERIN, B.I.;
MALIYEVSKIY, A.S.

Modernizing the driving unit of a contactor for sulfuric-acid
alkylation. Neftoper. i neftekhim. no.12:36-41 '63. (MIRA 17:4)

1. Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke
nefti i Novo-Ufimskiy neftepererabatyvayushchiy zavod.

K...-...-...-...-...

ZIMENKO, Vladimir Vasil'yevich; ANATOL'YEV, Konstantin [author's
real name Anatoliy Nikolayevich Kudinov]; ARKAD'YEVA, A.,
red.; BABAKHANOV, A., tekhn. red.

[Heroes of desert horizons] Geroi pustynnykh gorizontov.
Tashkent, Gosizdat UzSSR, 1962. 42 p. (MIRA 16:5)
(Ust-Urt--Gas, Natural)

SOV-111-58-9-28/30

AUTHOR: Kudinov, A.K., Assistant Minister of Communications, Uzbek SSR

TITLE: The First Congress of Engineering and Technical Workers and Innovators of Industry, Transport, Communications and Construction Work of Uzbekistan (Pervyy s'yezd inzhenerno-tekhnicheskikh rabotnikov i novatorov promyshlennosti, transporta, svyazi i **stroyek** Uzbekistana)

PERIODICAL: Vestnik svyazi, 1958, Nr 9, p 34 (USSR)

ABSTRACT: A congress was held recently in Tashkent by the Central Committee of the Republic's Communist Party. It was attended by 250 communications workers and 6 reports were read. Work is under way to create a unified TV network in Uzbekistan. The TV center in Tashkent, and TV relay stations in Fergana, Namangan, Urgi-Yere, Samarkand and Begovat are now in operation. It is planned to build powerful TV relay stations in the Fergana Valley - in the region of Ardizhan in Samarkand, Bukhara and Nukus, and also 100-watt TV relay stations in Termeza, Karshi and Urgencha. They will all receive programs from the Tashkent TV Center, but the Nukus Station will also have

Card 1/2

307-111-58-9-28/30
The First Congress of Engineering and Technical Workers and Innovators
of Industry, Transport, Communications and Construction Work of Uzbekistan

its own program. The Andizhan TV Center will be in operation by the end of 1958. The reconstruction and development of rayon dial offices will be carried out by automation. In 1959-65 it is planned to: reconstruct 115 rayon dial offices; set up relay block dial offices with a total capacity of 120 numbers; set up unified cross-bar dial offices with a total capacity of 2,080 numbers; set up 320 sets of 3-channel apparatus for multiplexing steel lines. Other topics discussed were automation and the productivity of labor. The DRTS laboratory has prepared 2 sets of apparatus for the reception of programs on an HF radio relay network, however, both are in need of improvement.

1. Communication systems--USSR
2. Personnel--Performance

Card 2/2

807/111-59-1-27/35

AUTHOR: Kudinov, A.N., Assistant to the Communications Minister

TITLE: Speeding-up the Delivery of Mail and Printed Matter in the Rural Area (Uskoreniye dostavki pochty i pechati v sel'skoy mestnosti)

PERIODICAL: Vestnik svyazi, 1959, Nr 1, p 29 (USSR)

ABSTRACT: The article outlines the improvements brought about in rural areas of Uzbekistan in the processing and delivery of mail and printed matter. At present there are 2 mailboxes per 1,000 inhabitants, 2,230 mailmen for the delivery of correspondence and papers in sovkhoses and kolkhoses (with the papers being delivered on the very day of their appearance), and 2 communications offices per 10,000 inhabitants. The number of populated places without any communications offices is decreasing and is at present between 25% and 5%. There is 1 photo.

ASSOCIATION: Ministerstvo svyazi Uzbekskoy SSR (The Communications Ministry of the Uzbek SSR)

Card 1/1

KUDINOV, A.N.

Reserves for further development of the means of radio communication,
broadcasting and television. Vest. svyazi 20 no.5:11-12 My '60.

(MIRA 13:12)

(Telecommunication)

KUDINOV, A.H.

Brigades and shock workers of communist labor at Uzbekistan communi-
cation enterprises. Vest. svyazi 20 no.8:20 Ag'60.. (MIRA 13:10)
(Uzbekistan--Telecommunication--Employees)

KUDINOV, A.N.

Follow the example of the leading letter carriers. Test. sviazi 21
no.5:30-32 My '61. (MIRA 14:6)
(Postal service--Letter carriers)

KUDINOV, A.N.

Progressive workers are those who help their friends. Vest.sviazi
21 no.10:24 0 '61. (MIRA 14:10)
(Telegraph)

KUDINOV, A.N.; BAGRO, I.R.

How the 22d Congress of the CPSU was met by the communication workers of Ukraine. Vest. svyazi 21 no.11:8-9 N '61.

(MIRA 14:11)

1. Nachal'nik otdela truda i zarabotnoy platy Ministerstva svyazi USSR.

(Ukraine—Telecommunication—Employees)

KUDINOV, A.N. (Tashkent)

Public inspection of the quality of work of telecommunication workers.
Vest. sviazi 23 no.3:23-24, Mr '63. (MIRA 16:3)
(Telecommunication—Employees)

KUDINOV, A.M. —

A transfer control bureau in "Uzbekistan. Vostok" aviazl 24 no.1:
27-29 Ja '64.

(MIRA 17:3)

KUDINOV, A.S.

Clinical aspects of malignant tumors of the duodenum. Sovet. med.
16 no. 7:13-14 July 1952. (CML 22:4)

1. Candidate Medical Sciences. 2. Of the Faculty Therapeutic Clinic
(Director -- Prof. S. S. Mindlin), Rostov Medical Institute.

GRABENKO, I.K., prof. (Rostov-na-Donu, ul. M. Gor'kogo, d.102, kv.4);
DOMBROVSKIY, A.I., prof.; KUDINOV, A.S., dotsent

Problem of radioactive iodine therapy in stenocardia; preliminary
report. Vest.rent.i rad. 34 no.2:31-34 Mr-Apr '59. (MIRA 13:4)

1. Iz Rostovskogo-na-Donu meditsinskogo instituta (direktor - prof.
Ye.M. Gubarev).

(ANGINA PECTORIS, ther.
radioiodine (Rus))
(IODINE, radioactive,
ther. of angina pectoris (Rus))

GRABENKO, I.K.; DOMBROVSKIY, A.I.; KUDINOV, A.S.

Results of treating stenocardia with radioactive iodine. Med.
rad. no.5:25-27 '62. (MIRA 15:8)

1. Iz kafedry fakul'tetskoy terapii (zav. - prof. I.K. Grabenko)
i kafedry rentgenologii i radiologii (zav. - A.I. Dombrovskiy)
Rostovskogo gosudarstvennogo meditsinskogo instituta.
(ANGINA PECTORIS) (IODINE--ISOTOPES)

1. KUDINOV, B.
2. USSR (600)
4. Machine-Tool Industry
7. Creating efficient designs, Za ekon. nat., no. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

591

AUTHORS: Kudinov, B.A., Naydis, V.A., Naletov, S.P., and Khludov, S.V.
 TITLE: Selection of the Type of Drive for Feed Mechanisms in Heavy Vertical Lathes (Vybor Tipa Privoda Mekhanizmov Podachi Tyazhelykh Karusel'nykh Stankov).
 PERIODICAL: "Stanki i Instrument" (Machine Tools and Cutting Tools, No.3, 1957, pp.9-13. (U.S.S.R.))
 ABSTRACT: A discussion of the advantages and disadvantages of various layouts in a wide range of heavy vertical lathes is accompanied by tables giving speed and feed limits and cutting forces for a range of diameters between 3200 mm and 20 000 mm and the corresponding range of component types between 2000 mm and 6300 mm. The feed and setting-up mechanisms are sub-divided into those with purely electrical and those with electromechanical control, controlled by either a two-speed gear-box or a two-motor drive. Another table for the above range of component sizes gives the installed h.p. for a number of variants belonging to these two classes also illustrated by kinematic diagrams. It is concluded that except for the largest machines, the most appropriate arrangement is the feed drive by an individual d.c. motor with two-speed gear-box control and a separate motor for fast setting-up motions. This arrangement yields the simplest and cheapest complete installation and is most readily standardised for the whole range of vertical lathes.
 There are 6 illustrations and 4 tables.

Card 1/1

AUTHOR

KUDINOV B.A., MAYDIS V.A., MALISOV S.P., KHLUDOV S.V.

TITLE

The Selection of the Main Drive Type of Heavy Vertical Lathes.
(Vybor tipa privoda glavnogo dvizheniya tyazhelykh karuselnykh stankov -Russian)

PERIODICAL

Stanki i Instrument, 1957. Vol 28, Nr 7, pp 1 - 3, (U.S.S.R.)

ABSTRACT

The development of the heavy metal working benches demands a continuous increase of the possibilities of regulating the main drive velocities because at steady minimum cutting velocity the highest attainable values increase steadily thanks to the perfection of the hard metal tools. For modern vertical lathes the controllability of revolutions amounts from 1 : 80 to 1:100 the main drive may be by means of an asynchronous electromotor via a many-stepped switch box, or well as by means of a controllable direct current motor with a 2-or 4 -stepped switch-box. The direct current drive facilitates the control of revolutions and thus renders it possible to attain the best cutting conditions, which is the case especially when applying a special current transformer. The mechanical part of the drive compared to the asynchronous motor, is simplified, (2 to 4 steps instead of 18 to 24 of the drive box) but the electric part is somewhat more complicated, which causes a decrease of operational safety, as well as an increase of initial costs; For the present heavy home models of vertical- and turning lathes, direct current motors with a shunt control of 4:1 as well as 3 mechanical switching steps are used, which corresponds

Card 1/2

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The Selection of the Main Drive Type of Heavy Vertical Lathes.

to a range domain of the faceplate revolving of from 1:64 to 1:85; individual motor converters are built in by 95% of the consumers. Table 1 and 3 illustrations show and explain the method of the most advantageous selection of the drive.

ASSOCIATION Not Given.
PRESENTED BY
SUBMITTED
AVAILABLE Library of Congress.
Card 2/2

KUDINOV, B.A.; NAYDIS, V.A.; NALETOV, S.P.

Operating electric drives in heavy-duty vertical boring and
turning lathes. Stan.1 instr. 28 no.9:10-12 S '57. (MIRA 10:10)
(Machine tools--Electric driving) (Electronic control)

KUDINOV, B.A.; NALETOV, S.P.

Development of the design of heavy-duty machine tools.
Stan.i instr. 31 no.3:1-10 Mr '60. (MIRA 13:6)
(Machine tools--Design)

KUDINOV, B.

Standardization in the plants of the Moscow Economic Council.
Mashinostroitel' no.12:36 D '64. (MIRA 18:2)

011
07.11
1955
Al'pinistskiye Lageri Profsoyuzov SSSR, Alpine Camps For USSR's Trade Unions,
Izd. 3., Perer. Moskva, Profizdat, 1955. 150 n. Ilus., Maps
"Literatura": n. 147 - 148

KUDINOV, B.N.

The most important condition for technical development. Za
indus.Riaz. no.2:17-18 D '61. (MIRA 16:10)

1. Glavnyy inzh. upravleniya mashinostroitel'noy i radiotekhnicheskoy promyshlennosti Ryazanskogo soveta narodnogo khozyaystva.

82111

S/056/60/038/03/12/033
B006/B014

24.6600

AUTHORS: Melioranskiy, A. S., Estulin, I. V., Kalinkin, L. P.,
Kudinov, B. S.

TITLE: Excited States of Cs^{134}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960,
Vol. 36, No. 3, pp. 758-764

TEXT: In the article under review, the authors used a coincidence-luminescence spectrometer to study the cascade γ -transitions induced in cesium nuclei by thermal neutron capture. Fig. 1 shows a block diagram of the spectrometer, which uses photomultipliers of the types FEU-13 and FEU-11 with NaI(Tl) crystals. The neutrons with which the 20 mm thick CsF target (0.25 g) was bombarded stemmed from the TVR²² reactor of the AS USSR. Fig. 4 represents the pulse spectra (number of pulses per minute as a function of energy) and the energy distributions of the number of coincidences per minute. Besides the γ -peaks, the coincidence spectra exhibited also a peak with (31 ± 2) kev, which corresponds to an X-ray emission of the Cs atom. This emission is ascribed primarily to an internal conversion of the γ -quanta on the K-shell

Card 1/3

X

FORM

Excited States of Cs^{134} S/056/60/038/03/12/033
B006/B014

and partly to the photoeffect of the γ -quanta in eigenabsorption in the target. To verify the measured internal conversion coefficient α_K a control experiment with Cs^{134m} ($T_{1/2} = 3.1$ hours) was made. A comparison of the peak areas at 127 and 31 keV showed that $\alpha_K = 2.8 \pm 0.3$, which is fairly consistent with the theoretical value 2.82 obtained for an E3 transition. For the purpose of studying the cascade γ -transitions four series of experiments were carried out, the results of which are listed in Table 1. The following lines were found in addition to that with 31 \pm 2 keV mentioned above: 63 \pm 2, 75 \pm 5, 120 \pm 3, 138 \pm 4, 184 \pm 4, 195 \pm 260, 215 \pm 4, 258 \pm 4, and 310 \pm 5. These results are discussed in great detail, and some data concerning the probable polarities are given. The 75-keV transition, for instance, may be a transition of the type E2 or M1+E2. Also, the intensities of the individual transitions are indicated. The 63-keV and 120-keV transitions are compared with theory in Table 2. Fig. 4 illustrates the nuclear level scheme, which is fully explained. The following spins and parities of the levels are given: 0 (4^+), 63 keV (2^+), 137 keV (8^-), 184 keV (3^+), 258 keV (4^+), and 320 keV (3^+ , 4^+). There are 4 figures, 2 tables, and 11 references, 6 of which are Soviet.

Card 2/3

Excited States of Cs¹³⁴

82114

S/056/60/038/03/12/033
B006/B014

ASSOCIATION: Institut yadernoy fiziki Moskovskogo gosudarstvennogo universi-
teta (Institute of Nuclear Physics of Moscow State University)

SUBMITTED: September 19, 1959

X

Card 3/3

- Abdumiyev, M.K., and V.A. Voznyak. On the Correlation Between the Kinetics of the Vaporization of Solids and the Pressure of Sublimated Vapor.
- Andrey, V.P. A (Transactions of the Institute of Metallurgy, Dural Branch, Academy of Sciences) (USSR, No. 4) Novosibirsk, 1950, 157 p. Russian. Also translated. 1,000 copies printed.
- Material Board: M.A. Tolstik (Dep. M.), Candidate of Technical Sciences; A.M. Mikhalitskiy, Professor, Director; V.Ye. Miller, Professor; P.A. Pashalov, Candidate of Technical Sciences; and G.D. Litvinov, Candidate of Technical Sciences; M.I. M.S. Ivanovskiy.
- FOREWORD: This book is intended for chemists and metallurgists.
- CONTENTS: The book presents results of investigations of theoretical problems in metallurgy and chemistry and gives information on the efficient use of raw materials in various metallurgical processes. It contains a selection of the scientific papers by leading scientists and experimental results of the scientific study of the kinetics of metallurgy, chemistry, and electrochemistry, Dural Branch, Academy of Sciences, USSR.
- Contents: A.V. Z.Y. Serebrennikov, and V.A. Voznyak. Kinetic Relations and Phase Composition of Sublimated Solids During the Sublimation Process.
- Andrey, V.P., and V.A. Voznyak. On the Correlation Between the Kinetics of the Vaporization of Solids and the Pressure of Sublimated Vapor.
- Andrey, V.P., and V.P. Miller (Moscow). Sublimation of Germanium During the Smelting of Salts of Germanium.
- Andrey, V.P., and V.P. Miller. On the Sublimation of the Lower Salts of Manganese and Cobalt.
- Andrey, V.P., and V.P. Miller. Oxidation of the Lower Salts of Manganese and Cobalt.
- Andrey, V.P., and V.P. Miller. Polarization of Beryllium-Oxide-Coated Electrodes in Aqueous Solutions.
- Andrey, V.P., and V.P. Miller. Investigation of the Conditions for Electrodeposition of Copper from Aqueous Solutions in the Presence of Iron, Zinc, and Cadmium Salts and the Extreme Action of Hydroxide.
- Andrey, V.P., and V.P. Miller. Some Properties of the Electrolytic Production of Lead Sponges from Aqueous Chloride Solutions and Solution of Insoluble Salts for Electrolysis.
- Andrey, V.P., and V.P. Miller. Some Properties of the Reaction of Solids with Soda and Zinc During the Smelting Process.
- Andrey, V.P., and V.P. Miller. Optimum Conditions for Leaching Soda-Soluble Silver Chloride.
- Andrey, V.P., and V.P. Miller. Production of Metallic Sodium by Carbon Reduction of the Salts of Cerium (Explanatory Notes).
- Andrey, V.P., and V.P. Miller. On the Problem of Reducing Zinc to the Oxidation Phase During Air Blast.
- Andrey, V.P., and V.P. Miller. Comparative Data on the Carrying of Liquid into the Oxidation Phase in an Experimental Converter.
- Andrey, V.P., and V.P. Miller. On the Sublimation of Oxides of Bismuth During the Metallurgical Treatment of Bismuth Ores.
- Andrey, V.P., and V.P. Miller. On the Melting and Freezing of Fig 2008 in the Oxide.
- Andrey, V.P., and V.P. Miller. Change in Chemical Composition and Heat Content of Fig 2008 During Oxide Melting.
- Andrey, V.P., and V.P. Miller. On the Sublimation of Phosphorus and Titanium in Fig 2008.
- Andrey, V.P., and V.P. Miller. On the Deposition of Perovskite Magnell.
- Andrey, V.P., and V.P. Miller. Investigation of the Crystallization of Polymers before and after Deposition.
- Andrey, V.P., and V.P. Miller. Production of Insulating Coatings of Insulators with Oxides.
- Andrey, V.P., and V.P. Miller. On the Problem of the Sublimation of Solids.

MIKHAYLOV, V.V.; KUDINOV, B.Z.; ZHUCHKOV, V.I.; CHENTSOV, A.V.;
OSINOVSKIY, L.L.

Smelting Bakal ores with maximum use of siderites in blast furnace
charges. Trudy Inst. met. UFAN SSSR no.2:61-66 '58.

(MIRA 12:4)

(Bakal region--Siderites)

(Blast furnaces)

BUHEL'NIKOV, S.M.; KUDINOV, B.Z.; KISILEV, V.A.

Dressing of titanium-magnetites from the Kruchina deposit.
Obog. rud 5 no.3:3-6 '60. (MIRA 14:8)

1. Institut metallurgii Ural'skogo filiala AN SSSR.
(Kruchina region--Magnetite) (Ore dressing)

BUHEL'NIKOV, S.M.; KUDINOV, B.Z.; KISELEV, V.A.

Dressing and metallurgical estimate of titanium-magnetite
ores. Titan i ego splavy no.5:38-49 '61. (MIRA 15:2)
(Ore dressing)
(Titanium--Metallurgy)
(Magnetite--Metallurgy)

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[Production of stereotype and electrostereotype plates]
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Kudinov, G.G.

AUTHORS: Andon'yev, S.M., Candidate of Technical Sciences, 130-12-4/24
Kudinov, G.A., and Liderman, S.M., Engineers.

TITLE: Plate Coolers in the Blast Furnace Stack (Plitovyye kholod-
il'niki v shakhte domennykh pechey)

PERIODICAL: Metallurg, 1957, no.12, pp. 8 - 9 (USSR).

ABSTRACT: The authors consider the heat-loss and cooling problems involved in using peripheral plate coolers (horizontally-ribbed vertical plates) in the blast-furnace stack, as at the Dzerzhinsk Works. This practice was described by G.G. Oreshkin and the authors examine some of his conclusions. They disagree with Oreshkin's views on optimal stack lines and point out that the ineffectiveness of utilisation of the increased furnace volume obtained with the plate coolers is shown by the equal performance of a new furnace with conventional stack cooling and with the same original volume. The authors give graphs relating the temperature of the cooler ribs to heat flow for the two Dzerzhinsk furnaces with peripheral plate coolers. There are 2 figures.

ASSOCIATION: Giprostal'

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